

Amendments to the Claims

Please amend Claims 1, 3-34, and 36-68. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Currently Amended) An apparatus for managing noise characteristics ~~in~~ in a communication system for transmitting digital signals using a compression code ~~comprising a predetermined plurality of parameters including a first parameter, said parameters representing an audio signal, said audio signal having a plurality of audio characteristics including a noise characteristic, said compression code being decodable by a plurality of decoding procedures, the~~ apparatus for managing the noise characteristic comprising:
 - a reading unit responsive to ~~said~~ the compression code of ~~said~~ a digital ~~signals~~ signal to read at least ~~said~~ a first parameter~~[[,]]~~ among a predetermined plurality of parameters in the digital signal;
 - a generation unit responsive to ~~said~~ a compression code and ~~said~~ the first parameter~~[[,]]~~ a generation unit to generate an adjusted first parameter in a presence of speech, noise, and combination thereof;
 - a replacement unit to replace ~~said~~ the first parameter with ~~said~~ the adjusted first parameter; and
 - a transmitter to transmit ~~said~~ the digital signal with a managed noise characteristic.
2. (Canceled)
3. (Currently Amended) ~~The Apparatus~~ apparatus, ~~as claimed in~~ of claim 1~~[[,]]~~ wherein ~~said~~ the first parameter ~~comprises~~ includes a codebook gain, and ~~wherein said reading the generation unit is arranged to~~ modifies modify ~~said~~ the codebook gain to modify a codebook vector contribution to ~~said~~ the noise characteristic.
4. (Currently Amended) ~~The Apparatus~~ apparatus, ~~as claimed in~~ of claim 1~~[[,]]~~ wherein ~~said~~ the first parameter ~~comprises~~ includes a codebook gain, ~~wherein said~~ the plurality of

parameters ~~further comprises~~ includes a pitch gain, ~~wherein said the~~ plurality of characteristics ~~further comprises~~ includes a signal to noise ratio, and ~~wherein said the~~ reading generation unit is arranged to generate the adjusted first parameter, including an adjusted codebook gain, responsive to said the codebook gain, said the pitch gain and said the signal to noise ratio to generate said adjusted first parameter, and wherein said adjusted first parameter comprises an adjusted codebook gain.

5. (Currently Amended) ~~The Apparatus apparatus, as claimed in of claim 4[[,]]~~ wherein ~~said the~~ signal to noise ratio ~~comprises~~ includes a ratio involving noisy signal power and noise power of ~~said an~~ audio signal.

6. (Currently Amended) ~~The Apparatus apparatus, as claimed in of claim 1[[,]]~~ wherein ~~said the~~ first parameter ~~comprises~~ includes a pitch gain, ~~wherein said the~~ plurality of parameters ~~further comprise~~ includes a codebook gain, wherein ~~said the~~ reading unit is arranged to performs perform said the plurality of decoding procedures by generating a codebook vector, and wherein said the reading generation unit includes at least a first buffer to generate first samples based on pitch period responsive to the scaled codebook vector and is arranged to scales scale said the codebook vector by said the codebook gain to generate a scaled codebook vector, wherein said reading unit comprises at least a first buffer responsive to said scaled codebook vector to generate first samples based on pitch period, wherein said reading unit, scale[[s]] said the first samples by said the pitch gain to generate first scaled samples, and wherein said reading unit modifies said modify the pitch gain to modify the contribution of said the first scaled samples in order to manage said the noise characteristic.

7. (Currently Amended) ~~The Apparatus apparatus, as claimed in of claim 1[[,]]~~ wherein ~~said the~~ first parameter ~~comprises~~ includes a pitch gain, ~~wherein said the~~ plurality of characteristics ~~further comprises~~ includes a signal to noise ratio, ~~wherein said and the~~ reading generation unit is arranged responsive to said pitch gain and said signal to noise ratio to generate said the adjusted first parameter, including an adjusted pitch gain,

responsive to the pitch gain and the signal to noise ratio[[,]] ~~and wherein said adjusted first parameter comprises an adjusted pitch gain.~~

8. (Currently Amended) The Apparatus apparatus ~~, as claimed in~~ of claim 7[[,]] wherein ~~said~~ the signal to noise ratio comprises includes a ratio involving noisy signal power and noise power of ~~said~~ the audio signal.

9. (Currently Amended) The Apparatus apparatus ~~, as claimed in~~ of claim 1[[,]] wherein ~~said~~ the first parameter comprises includes a pitch gain, wherein ~~said~~ the plurality of parameters ~~further comprise~~ include a codebook gain, wherein ~~said~~ the reading unit is arranged to perform[[s]] ~~said~~ the plurality of decoding procedures to generate a codebook vector, ~~wherein said reading and the generation unit is arranged to scale~~[[s]] ~~said~~ the codebook vector by ~~said~~ the codebook gain to generate a scaled codebook vector, ~~wherein said reading unit generates a power signal representing the power of said the scaled codebook vector, wherein said reading unit and the adjusted first parameter, including an adjusted pitch gain, is responsive to said the pitch gain and said the power signal to generate said adjusted first parameter, and wherein said adjusted first parameter comprises an adjusted pitch gain.~~

10. (Currently Amended) The Apparatus apparatus ~~, as claimed in~~ of claim 1[[,]] wherein ~~said~~ the first parameter comprises includes a pitch gain, wherein ~~said~~ the reading generation unit ~~comprises includes~~ at least a first buffer generating at least first samples based on a pitch period[[,]] ~~and wherein said reading is arranged to scale~~[[s]] ~~said~~ the first samples by ~~said~~ the pitch gain to generate at least first scaled samples, ~~wherein said reading unit generates~~ generate at least a first power signal representing the power of ~~said~~ the first scaled samples[[,]] ~~and wherein said reading unit is generate the adjusted first parameter, including an adjusted pitch gain, responsive at least to said the pitch gain and said the first power signal to generate said adjusted first parameter, and wherein said adjusted first parameter comprises an adjusted pitch gain.~~

11. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 10[[,]] wherein ~~said the reading generation unit comprises~~ includes a second buffer responsive in part to ~~said the~~ first power signal to generate second samples based on the pitch period, ~~wherein said reading unit and is arranged to scales scale said the~~ second samples by ~~said the~~ pitch gain to generate second scaled samples, ~~wherein said reading unit generates~~ generate a second power signal representing the power of ~~said the~~ second scaled samples, and ~~wherein said reading unit the adjusted first parameter is responsive to said the~~ pitch gain, ~~said the~~ first power signal and ~~said the~~ second power signal ~~to generate said adjusted first parameter.~~

12. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 11[[,]] wherein ~~said the~~ first buffer and ~~said the~~ second buffer each ~~comprises~~ include a long-term predictor buffer.

13. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 1[[,]] wherein ~~said the~~ first parameter ~~comprises~~ includes a pitch gain, ~~wherein said the~~ plurality of parameters ~~further comprises~~ includes a codebook gain, ~~wherein said the reading generation unit comprises~~ includes a pitch synthesis filter, ~~wherein said reading unit and is arranged to performs perform~~ said the plurality of decoding procedures to generate a first vector, ~~wherein said reading unit scales scale said the~~ first vector by ~~said the~~ codebook gain to generate a scaled codebook vector, ~~wherein said reading unit filters filter said the~~ scaled codebook vector through ~~said the~~ pitch synthesis filter to generate a second vector, ~~wherein said reading unit generates~~ generate a power signal representing the power of ~~said the~~ second vector[[,]] and ~~wherein said reading unit is responsive to said pitch gain and said power signal to generate said the~~ adjusted first parameter, including an adjusted pitch gain, responsive to the pitch gain and the power signal, ~~and wherein said adjusted first parameter comprises an adjusted pitch gain.~~

14. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 13[[,]] wherein ~~said the~~ first vector ~~comprises~~ includes a codebook excitation vector and ~~wherein said the~~ second vector ~~comprises~~ includes a linear predictive coding excitation vector.

15. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said~~ the first parameter ~~comprises~~ includes a codebook vector ~~comprising~~ including pulses using variable sets of amplitudes, wherein ~~said reading~~ the generation unit is arranged to ~~analyzes~~ analyze ~~said the~~ sets to identify the powers of ~~said the~~ noise characteristic represented by ~~said the~~ sets[[,]] ~~wherein said reading unit identifies~~ and a first set representing a power less than the power represented by ~~said the~~ sets other than ~~said the~~ first set, and ~~wherein said reading unit~~ adjust[[s]] ~~said the~~ pulses according to ~~said the~~ first set to generate said adjusted parameter.
16. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said~~ the plurality of decoding procedures further ~~comprises~~ includes at least one decoding procedure that does not substantially affect the management of the noise characteristic and ~~wherein said the~~ reading unit avoids performing ~~said the~~ at least one decoding procedure.
17. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 16 [[,]] wherein ~~said~~ the at least one decoding procedure ~~comprises~~ includes post-filtering.
18. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said~~ the compression code ~~comprises~~ includes a linear predictive code.
19. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said~~ the compression code ~~comprises~~ includes regular pulse excitation long term prediction code.
20. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said~~ the compression code ~~comprises~~ includes code-excited linear prediction code.
21. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said~~ the first parameter is a quantized first parameter and ~~wherein said the reading generation~~ unit is arranged to ~~generates said~~ generate the adjusted first parameter in part by quantizing

~~said the~~ adjusted first parameter before replacing ~~said the~~ first parameter with ~~said the~~ adjusted first parameter.

22. (Currently Amended) ~~The Apparatus apparatus~~, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said the~~ compression code is arranged in frames of ~~said the~~ digital signals and ~~wherein said the~~ frames ~~comprise~~ include a plurality of subframes each ~~comprising said~~ including the first parameter, ~~wherein said the~~ reading unit is responsive to ~~said the~~ compression code to read at least ~~said the~~ first parameter from each of ~~said the~~ plurality of subframes, and ~~wherein~~ ~~said the~~ reading replacement unit is arranged to ~~replaces~~ replace ~~said the~~ first parameter with ~~said the~~ adjusted first parameter in each of ~~said the~~ plurality of subframes.
23. (Currently Amended) ~~The Apparatus apparatus~~, ~~as claimed in~~ of claim 22 [[,]] wherein ~~said the~~ reading replacement unit is arranged to ~~replaces~~ replace ~~said the~~ first parameter with ~~said the~~ adjusted first parameter for a first subframe before processing a subframe following the first subframe to achieve lower delay.
24. (Currently Amended) ~~The Apparatus apparatus~~, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said the~~ compression code is arranged in frames of ~~said the~~ digital signals and ~~wherein said the~~ frames comprise a plurality of subframes each ~~comprising said~~ including the first parameter, ~~wherein said the~~ reading unit is arranged to begin[[s]] to perform ~~said the~~ decoding procedures during a first of ~~said the~~ subframes[[,]] to generate a plurality of ~~said the~~ decoded signals, read[[s]] ~~said the~~ first parameter from a second of said subframes occurring subsequent to ~~said the~~ first subframe, and the generation unit is arranged to generate[[s]] ~~said the~~ adjusted first parameter in response to ~~said the~~ decoded signals and ~~said the~~ first parameter, and the replacement unit is arranged to replace[[s]] ~~said the~~ first parameter of ~~said the~~ second subframe with ~~said the~~ adjusted first parameter.
25. (Currently Amended) ~~The Apparatus apparatus~~, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said the~~ reading unit is responsive to ~~said the~~ compression code to perform at least one of a plurality of ~~said the~~ decoding procedures to generate decoded signals and wherein ~~said the~~

reading generation unit is responsive to ~~said~~ the decoded signals and ~~said~~ the first parameter to generate ~~said~~ the adjusted first parameter.

26. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said~~ the first parameter is selected from a group consisting of codebook vector, codebook gain, pitch gain and LPC coefficients representations, including line spectral frequencies and log area ratios.
27. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 1 [[,]] wherein ~~said~~ the ~~audio~~ digital signals have spectral regions affected by ~~said~~ the noise characteristic, ~~wherein said~~ the first parameter comprises a representation of linear predictive coding coefficients, ~~wherein said~~ and the reading generation unit is arranged to determine the spectral regions affected by noise is responsive to ~~said~~ the compression code and ~~said~~ the representation ~~to determine said spectral regions affected by noise and to generate said the~~ adjusted first parameter, including an adjusted representation of linear predictive coding coefficients, to manage ~~said~~ the noise characteristic in ~~said~~ the regions, ~~and wherein said~~ adjusted first parameter comprises an adjusted representation of linear predictive coding coefficients.
28. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 27 [[,]] wherein ~~said~~ the representation of linear predictive coding coefficients is selected from a group ~~consisting~~ including of line spectral frequencies and log area ratios.
29. (Currently Amended) An apparatus for managing the noise characteristic ~~in~~ in a communication system for transmitting digital signals ~~comprising~~ including code samples, ~~said~~ the code samples ~~comprising~~ including first bits using a compression code and second bits using a linear code, ~~said code samples representing an audio signal, said audio signal having a plurality of audio characteristics including a noise characteristic, the apparatus for managing the noise characteristic comprising:~~

a reading unit responsive to ~~said~~ the second bits to adjust ~~said~~ the first bits and ~~said~~ the second bits, without decoding ~~said~~ the compression code, to manage the noise characteristic in the digital signals; and

a transmitter ~~module~~ unit to transmit adjusted first and second bits to a device to produce a corresponding audible signal with a managed noise characteristic for an end user.

30. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 29 ~~[[,]]~~ wherein ~~said~~ the linear code ~~comprises~~ includes pulse code modulation (PCM) code.
31. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 29 ~~[[,]]~~ wherein ~~said~~ the compression code samples conform to the tandem-free operation of the global system for mobile communications standard.
32. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 29 ~~[[,]]~~ wherein ~~said~~ the first bits ~~comprise~~ include the two least significant bits of ~~said~~ the samples and ~~wherein~~ ~~said~~ the second bits ~~comprise~~ include the ~~[[6]]~~ six most significant bits of said samples.
33. (Currently Amended) The Apparatus apparatus, ~~as claimed in~~ of claim 32 ~~[[,]]~~ wherein ~~said~~ the ~~[[6]]~~ six most significant bits ~~comprise~~ include PCM code.
34. (Currently Amended) A method for managing noise characteristics ~~In~~ in a communication system for transmitting digital signals using a compression code, the compression code including comprising a predetermined plurality of parameters including a first parameter, ~~said parameters representing an audio signal, said audio signal having a plurality of audio characteristics including a noise characteristic, said compression code being decodable by a plurality of decoding procedures, a~~ the method of managing the noise characteristic comprising:
 - reading at least said first parameter;

generating an adjusted first parameter in a presence of speech, noise, and combination thereof in response to ~~said the~~ the compression code and ~~said the~~ the first parameter; replacing ~~said the~~ the first parameter with ~~said the~~ the adjusted first parameter, and transmitting ~~said the~~ the digital signal with a managed noise characteristic.

35. (Canceled)
36. (Currently Amended) ~~The A method, as claimed in of claim 34[[,]]~~ wherein ~~said the~~ the first parameter ~~comprises~~ includes a codebook gain, and ~~wherein said method further including~~ comprises modifying ~~said the~~ the codebook gain to modify a codebook vector contribution to ~~said the~~ the noise characteristic.
37. (Currently Amended) ~~The A method, as claimed in of claim 34[[,]]~~ wherein ~~said the~~ the first parameter ~~comprises~~ includes a codebook gain, ~~wherein said the~~ the plurality of parameters ~~further comprises~~ includes a pitch gain, ~~wherein said the~~ the plurality of characteristics ~~further comprises~~ includes a signal to noise ratio and ~~wherein said generating comprises further~~ including generating ~~said the~~ the adjusted first parameter, including an adjusted codebook gain, in response to ~~said the~~ the codebook gain, ~~said the~~ the pitch gain and ~~said the~~ the signal to noise ratio; and wherein ~~said adjusted first parameter comprises an adjusted codebook gain~~.
38. (Currently Amended) ~~The A method, as claimed in of claim 37[[,]]~~ wherein ~~said the~~ the signal to noise ratio ~~comprises~~ includes a ratio involving noisy signal power and noise power of ~~said an~~ an audio signal.
39. (Currently Amended) ~~The A method, as claimed in of claim 34[[,]]~~ wherein ~~said the~~ the first parameter includes a pitch gain, ~~wherein said the~~ the plurality of parameters further includes a codebook gain, ~~wherein said generating comprises and further including~~ performing ~~said the~~ the plurality of decoding procedures by generating a codebook vector, scaling ~~said the~~ the codebook vector by ~~said the~~ the codebook gain to generate a scaled codebook vector, generating first

samples based on pitch period in response to ~~said~~ the scaled codebook vector, scaling ~~said~~ the first samples by ~~said~~ the pitch gain to generate first scaled samples, and modifying ~~said~~ the pitch gain to modify the contribution of ~~said~~ the first scaled samples in order to manage ~~said~~ the noise characteristic.

40. (Currently Amended) ~~The A method, as claimed in~~ of claim 34[[,]] wherein ~~said~~ the first parameter ~~comprises~~ includes a pitch gain, wherein ~~said~~ the plurality of characteristics ~~further comprises~~ includes a signal to noise ratio, wherein ~~said~~ generating comprises and further including generating ~~said~~ the adjusted first parameter, including an adjusted pitch gain, in response to ~~said~~ the pitch gain and said signal to noise ratio, ~~and wherein said adjusted first parameter comprises an adjusted pitch gain.~~
41. (Currently Amended) ~~The A method, as claimed in~~ of claim 40[[,]] wherein ~~said~~ the signal to noise ratio ~~comprises~~ includes a ratio involving noisy signal power and noise power of ~~said~~ the audio signal.
42. (Currently Amended) ~~The A method, as claimed in~~ of claim 34[[,]] wherein ~~said~~ the first parameter ~~comprises~~ includes a pitch gain, wherein ~~said~~ the plurality of parameters ~~further comprises~~ include a codebook gain, wherein ~~said~~ the generating ~~comprises~~ and further including performing ~~said~~ the plurality of decoding procedures to generate a codebook vector, scaling said codebook vector by ~~said~~ the codebook gain to generate a scaled codebook vector, generating a power signal representing the power of ~~said~~ the scaled codebook vector, and generating ~~said~~ the adjusted first parameter, including an adjusted pitch gain, in response to ~~said~~ the pitch gain and ~~said~~ the power signal, ~~and wherein said adjusted first parameter comprises an adjusted pitch gain.~~
43. (Currently Amended) ~~The A method, as claimed in~~ of claim 34[[,]] wherein ~~said~~ the first parameter ~~comprises~~ includes pitch gain, wherein ~~said~~ the generating ~~comprises~~ includes generating at least first samples based on pitch period, scaling ~~said~~ the first samples by ~~said~~ the pitch gain to generate at least first scaled samples, generating at least a first power signal

representing the power of ~~said the~~ first scaled samples, and generating ~~said the~~ adjusted first parameter, including an adjusted pitch gain, in response to at least ~~said the~~ pitch gain and ~~said the~~ first power signal, ~~and wherein said adjusted first parameter comprises an adjusted pitch gain.~~

44. (Currently Amended) ~~The A method, as claimed in of claim 43 [[,]] wherein said~~ generating further ~~comprises~~ including generating second samples based on pitch period responsive in part to ~~said the~~ first power signal, scaling ~~said the~~ second samples by ~~said the~~ pitch gain to generate second scaled samples, generating a second power signal representing the power of ~~said the~~ second scaled samples and generating ~~said the~~ adjusted first parameter in response to ~~said the~~ pitch gain, ~~said the~~ first power signal and ~~said the~~ second power signal.
45. (Currently Amended) ~~The A method, as claimed in of claim 44[[,]] wherein said the system~~ ~~comprises~~ includes one or more long-term predictor buffers and ~~wherein said further~~ including generating ~~said the~~ first and second samples ~~comprises~~ using ~~said the~~ one or more buffers.
46. (Currently Amended) ~~The A method, as claimed in of claim 34[[,]] wherein said the first~~ parameter ~~comprises~~ includes a pitch gain, wherein ~~said the~~ plurality of parameters ~~comprises~~ includes a codebook gain, and ~~wherein said further including generating~~ ~~comprises~~ performing ~~said the~~ plurality of decoding procedures to generate a first vector, scaling ~~said the~~ first vector by ~~said the~~ codebook gain to generate a scaled codebook vector, filtering ~~said the~~ scaled codebook vector by pitch synthesis filtering to generate a second vector, generating a power signal representing the power of ~~said the~~ second vector, and generating ~~said the~~ adjusted first parameter, including an adjusted pitch gain, in response to ~~said the~~ pitch gain and ~~said the~~ power signal, ~~and wherein said adjusted first parameter comprises an adjusted pitch gain.~~

47. (Currently Amended) ~~The A method, as claimed in~~ of claim 46[[,]] wherein ~~said the~~ first vector ~~comprises~~ includes a codebook excitation vector and ~~wherein said the~~ second vector ~~comprises~~ includes a linear predictive coding excitation vector.
48. (Currently Amended) ~~The A method, as claimed in~~ of claim 34[[,]] wherein ~~said the~~ first parameter ~~comprises~~ includes a codebook vector ~~comprising~~ including pulses using variable sets of amplitudes, ~~wherein said generating comprises~~ and further including analyzing ~~said the~~ sets to identify the powers of said noise characteristic represented by ~~said the~~ sets, identifying a first set representing a power less than the power represented by ~~said the~~ sets other than said first set, and adjusting ~~said the~~ pulses according to ~~said the~~ first set to generate ~~said the~~ adjusted parameter.
49. (Currently Amended) ~~The A method, as claimed in~~ of claim 34[[,]] wherein ~~said the~~ plurality of decoding procedures ~~further comprises~~ includes at least one decoding procedure that does not substantially affect the management of the noise characteristic and ~~wherein said the~~ generating avoids performing ~~said the~~ at least one decoding procedure.
50. (Currently Amended) ~~The A method, as claimed in~~ of claim 49[[,]] wherein ~~said the~~ at least one decoding procedure ~~comprises~~ includes post-filtering.
51. (Currently Amended) ~~The A method, as claimed in~~ of claim 34[[,]] wherein ~~said the~~ compression code ~~comprises~~ includes a linear predictive code.
52. (Currently Amended) ~~The A method, as claimed in~~ of claim 34[[,]] wherein ~~said the~~ compression code ~~comprises~~ includes regular pulse excitation long term prediction code.
53. (Currently Amended) ~~The A method, as claimed in~~ of claim 34[[,]] wherein ~~said the~~ compression code ~~comprises~~ includes code-excited linear prediction code.

54. (Currently Amended) The A method, as claimed in of claim 34[[,]] wherein said the first parameter is a quantized first parameter and wherein said the generating ~~comprises~~ includes generating said the adjusted first parameter in part by quantizing said the adjusted first parameter before replacing said the first parameter with said the adjusted first parameter.
55. (Currently Amended) The A method, as claimed in of claim 34[[,]] wherein said the compression code is arranged in frames of said the digital signals and wherein said the frames ~~comprise~~ include a plurality of subframes each ~~comprising~~ said including the first parameter, ~~wherein said reading comprises and further including~~ reading at least said the first parameter from each of said the plurality of subframes in response to said the compression code, and ~~wherein said replacing comprises~~ replacing said the first parameter with said the adjusted first parameter in each of said the plurality of subframes.
56. (Currently Amended) The A method, as claimed in of claim 55[[,]] ~~wherein said replacing comprises~~ further including replacing said the first parameter with said the adjusted first parameter for a first subframe before processing a subframe following the first subframe to achieve lower delay.
57. (Currently Amended) The A method, as claimed in of claim 34[[,]] wherein said the compression code is arranged in frames of said the digital signals and said the frames ~~comprises~~ includes a plurality of subframes each ~~comprising~~ said including the first parameter, ~~wherein said generating comprises~~ includes beginning to perform said the decoding procedures during a first of said the subframes to generate a plurality of said the decoded signals, ~~wherein said reading comprises and further including~~ reading said the first parameter from a second of said the subframes occurring subsequent to said the first subframe, wherein said the generating further and further including generating said the adjusted first parameter in response to said the decoded signals and said the first parameter, and ~~wherein said replacing comprises~~ replacing said the first parameter of said the second subframe with said the adjusted first parameter.

58. (Currently Amended) The A method, as claimed in of claim 34[[,]] wherein ~~said~~ generating comprises further including performing at least one of a plurality of ~~said the~~ decoding procedures to generate decoded signals in response to ~~said the~~ compression code and generating ~~said the~~ adjusted first parameter in response to ~~said the~~ decoded signals and ~~said the~~ first parameter.
59. (Currently Amended) The A method, as claimed in of claim 34[[,]] wherein ~~said the~~ first parameter is selected from a group consisting of codebook vector, codebook gain, pitch gain and LPC coefficients representations, including line spectral pairs and line spectral frequencies.
60. (Currently Amended) The A method, as claimed in of claim 34[[,]] wherein ~~said the~~ audio signals have spectral regions affected by said noise characteristic, ~~wherein said the~~ first parameter ~~comprises~~ includes a representation of linear predictive coding coefficients, and ~~wherein said generating comprises further including~~ determining ~~said the~~ spectral regions affected by noise in response to ~~said the~~ compression code and ~~said the~~ representation and generating ~~said the~~ adjusted first parameter, including an adjusted representation of linear predictive coding coefficients, to manage ~~said the~~ noise characteristic in ~~said the~~ regions; and wherein ~~said adjusted first parameter comprises an adjusted representation of linear predictive coding coefficients~~.
61. (Currently Amended) The A method, as claimed in of claim 60[[,]] wherein ~~said the~~ representation of linear predictive coding coefficients is selected from a group ~~consisting of~~ including line spectral frequencies and log area ratios.
62. (Currently Amended) A method for managing the noise characteristic In in a communication system for transmitting digital signals ~~comprising~~ including code samples, ~~said the~~ code samples ~~comprising~~ including first bits using a compression code and second bits using a linear code, ~~said code samples representing an audio signal, said audio signal~~

~~having a plurality of audio characteristics including a noise characteristic; the apparatus for managing the noise characteristic~~ comprising:

adjusting ~~said~~ the first bits and ~~said~~ the second bits in response to ~~said~~ the second bits, without decoding ~~said~~ the compression code, to manage the noise characteristic in the digital signals in a presence of speech, noise, and combination thereof; and

transmitting adjusted first and second bits to a device to produce a corresponding audible signal with a managed noise characteristic for an end user.

63. (Currently Amended) ~~The A method, as claimed in~~ of claim 62[[,]] wherein ~~said~~ the linear code ~~comprises~~ includes pulse code modulation (PCM) code.
64. (Currently Amended) ~~The A method, as claimed in~~ of claim 62[[,]] wherein ~~said~~ the code samples conform to the tandem-free operation of the global system for mobile communications standard.
65. (Currently Amended) ~~The A method, as claimed in~~ of claim 62[[,]] wherein ~~said~~ the first bits ~~comprise~~ include the two least significant bits of ~~said~~ the samples and ~~wherein said~~ the second bits ~~comprise~~ include the 6 six most significant bits of said samples.
66. (Currently Amended) ~~The A method, as claimed in~~ of claim 65[[,]] wherein ~~said~~ the 6 six most significant bits include PCM code.
67. (Currently Amended) ~~The Apparatus apparatus, as claimed in~~ of claim 1[[,]] wherein ~~said~~ the reading unit performs ~~said~~ the plurality of decoding procedures by performing first decoding procedures to generate first decoder signals resulting in a noisy speech signal and second decoding procedures to generate second decoder signals resulting in an estimated clean speech signal, and wherein ~~said~~ the reading generation unit responds at least to ~~said~~ the first decoder signals and ~~said~~ the second decoder signals and ~~said~~ the first parameter to generate ~~said~~ the adjusted first parameter.

68. (Currently Amended) ~~The A method, as claimed in~~ The A method, as claimed in of claim 34[[,]] ~~and~~ further comprising:
- performing ~~said the~~ plurality of decoding procedures by performing first decoding procedures to generate first decoder signals resulting in a noisy speech signal and second decoding procedures to generate second decoder signals resulting in an estimated clean speech signal; and
- responding at least to ~~said the~~ first decoder signals and ~~said the~~ second decoder signals and ~~said the~~ first parameter to generate ~~said the~~ adjusted first parameter.